Practitioner's Docket No.: 920 090

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

hare the application of: ODAKA, Tsuaki; IESHIGE, Munenori; MAEDA, Mitsuru;

HIROTA, Kenichi; and YUKI, Masahiro

10/586,171

Group Art Unit: Not assigned

For:

Examiner: Not assigned

Conf. No.: 2831

THERMAL TRANSFER SHEET

Commissioner for Patents P.O. Box 1450

Alexandria, VA 22313-1450

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on November 8, 2006.

SUBMISSION OF ENGLISH TRANSLATION OF INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

Sir:

Applicants submit herewith an English translation of the International Preliminary Report on Patentability dated 31 August 2006 in connection with the above-identified application.

November 8, 2006

Date

Respectfully submitted,

Stephen H. Bu

SPB:jms

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PATENT COOPERATION TREATY

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF TRANSMITTAL
OF COPIES OF TRANSLATION
OF THE INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY
(CHAPTER I OR CHAPTER II
OF THE PATENT COOPERATION TREATY)

(PCT Rules 44bis.3(c) and 72.2)

To:

YOSHITAKE, Kenji Kyowa Patent & Law Office Room 323, Fuji Bldg. 2-3, Marunouchi 3-chome Chiyoda-ku, Tokyo 1000005 JAPON



Date of mailing (day/month/year) 31 August 2006 (31.08.2006)	
Applicant's or agent's file reference 152199-268	IMPORTANT NOTIFICATION
International application No. PCT/JP2005/000700	International filing date (day/month/year) 20 January 2005 (20.01.2005)
Applicant DAI NII	PPON PRINTING CO., LTD. et al

l.	Transmittal	of the	translation	to	the	applicant.
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The International Bureau transmits herewith a copy of the English translation of the international preliminary report of
patentability (Chapter I).

The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter II).

2. Transmittal of the copy of the translation to the designated or elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following designated or elected Offices requiring such translation:

None

The following designated or elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

AE, AG, AL, AM, AP, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EA, EC, EE, EG, EP, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OA, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability (Chapter II).

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned within the applicable time limit (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Yoshiko Kuwahara

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Facsimile No. +41 22 338 82 70 Form PCT/IB/338 (January 2004)

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 152199-268	FOR FURTHER ACTION	See item 4 below
International application No. PCT/JP2005/000700	International filing date (day/month/year) 20 January 2005 (20.01.2005)	Priority date (day/month/year) 20 January 2004 (20.01.2004)
nternational Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237		
Applicant DAI NIPPON PRINTING CO., LTD.		

1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).		
2.	This REPORT consists of a total	of 7 sheets, including this cover sheet.	
	In the attached sheets, any refere to the international preliminary re	nce to the written opinion of the International Searching Authority should be read as a reference eport on patentability (Chapter I) instead.	
3.	This report contains indications r	elating to the following items:	
	Box No. I	Basis of the report	
	Box No. II	Priority	
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability	
	Box No. IV	Lack of unity of invention	
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement	
	Box No. VI	Certain documents cited	
	Box No. VII	Certain defects in the international application	
	Box No. VIII	Certain observations on the international application	
4.	The International Bureau will co not, except where the applicant idate (Rule 44bis .2).	mmunicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but makes an express request under Article 23(2), before the expiration of 30 months from the priority	

	Date of issuance of this report 22 August 2006 (22.08.2006)
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Yoshiko Kuwahara
Facsimile No. +41 22 338 82 70	e-mail: pt07@wipo.int

PATENT COOPERATION TREATY

TRANSLATION INTERNATIONAL SEARCHING AUTHORITY To: WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) Applicant's or agent's file reference FOR FURTHER ACTION See paragraph 2 below 152199-268 International filing date (day/month/year) Priority date (day/month/year) International application No. 20.01.2004 20.01.2005 PCT/JP2005/000700 International Patent Classification (IPC) or both national classification and IPC Applicant DAI NIPPON PRINTING CO., LTD. This opinion contains indications relating to the following items: Basis of the opinion Box No. I Box No. II Priority Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. III Box No. IV Lack of unity of invention Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial Box No. V applicability: citations and explanations supporting such statement Certain documents cited Box No. VI Certain defects in the international application Box No. VII Box No. VIII Certain observations on the international application FURTHER ACTION If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. Authorized officer Name and mailing address of the ISA/JP Telephone No. Facsimile No.

International application No.
PCT/JP2005/000700

Box l	No. I	Basis of this opinion	
1.	With re	regard to the language, this opinion has been established on the basis of the unless otherwise indicated under this item.	international application in the language in which it was
-	_ ₁	This opinion has been established on the basis of a translation from the origin	nal language into the following language
•		. which is the language of a translation	furnished for the purposes of international search (under
	1	Rule 12.3 and 23.1(b)).	
2.	With a	regard to any nucleotide and/or amino acid sequence disclosed in the tion, this opinion has been established on the basis of:	international application and necessary to the claimed
	a. t	type of material	
	Γ	a sequence listing	
	Ī	table(s) related to the sequence listing	
	ъ. I	format of material	
	. r	in written format	
	į. T		
	L	in computer readable form	·
	c.	time of filing/furnishing	
	l	contained in the international application as filed.	
	[filed together with the international application in computer readable	form.
	ĺ	furnished subsequently to this Authority for the purposes of search.	
3.		In addition, in the case that more than one version or copy of a sequence furnished, the required statements that the information in the subsequent of filed or does not go beyond the application as filed, as appropriate, were furnished.	additional copies is identical to man in the
4.	Addi	itional comments:	
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International application No.
PCT/JP2005/000700

Box	No. IV	Lack of unity of invention
1.		In response to the invitation (Form PCT/ISA/206) to pay additional fees the applicant has:
		paid additional fees
		paid additional fees under protest
		not paid additional fees
2.		This Authority found that the requirement of unity of invention is not complied with and chose not to invite the applicant to pay additional fees.
3.	This	Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is
		complied with
	\boxtimes	not complied with for the following reasons:
		1. The inventions of claims 1-6 relate to a thermal transfer sheet comprising a heat-resistant lubricant layer, an adhesive layer containing a modified polyvinyl pyrrolidone resin and a sugar or a sugar alcohol, and a dye layer.
		2. The inventions of claims 7-9 relate to a thermal transfer sheet comprising a heat-resistant lubricant layer, an adhesive layer containing a polyvinyl pyrrolidone resin and a complex forming agent, and a dye layer.
		3. The inventions of claims 10-12 relate to a thermal transfer sheet comprising a heat-resistant lubricant layer, an adhesive layer containing a polyvinyl pyrrolidone resin and a modifying agent, and a dye layer.
		4. The inventions of claims 13-16 relate to a thermal transfer sheet comprising a heat-resistant lubricant layer, an adhesive layer containing a polyvinyl pyrrolidone resin, a component (A) and a component (B), and a dye layer.
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	•	
		of the following parts of the international application:
4	l. Co	nsequently, this opinion has been established in respect of the following parts of the international application:
	K	all parts
1	L_	the parts relating to claims Nos.

International application No.
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- industrial applicability:

Box No. V Reas	soned statement under R ions and explanations su	ule 43bis.1(a)(i) with regard to novelty, inventive ste pporting such statement	p or industrial applicability;
1. Statement			
Novelty (N)	Claims	4-6, 10-16	YES
	Claims	1-3, 7-9	ио
Inventive step	(IS) Claims	4-6, 10-16	YES
		1-3, 7-9	NO
. Industrial appl	icability (IA) Claims	1-16	YES
	Claims		NO
			_

2. Citations and explanations:

Document 1: JP, 2003-312151, A (Dainippon Printing Co., Ltd.), 6 November, 2003 (06.11.03), full text, all drawings, & EP, 1338433, A1, & US, 2003/0181331, A1

Document 2: JP, 5-131760, A (Eastman Kodak Company), 28 May, 1993 (28.05.93), full text, & US, 5147843, A, & EP, 513800, A1

Document 3: JP, 7-179072, A (Eastman Kodak Company), 18 July, 1995 (18.07.95), full text, & EP, 655348, A1, & US, 5306691, A

The thermal transfer sheet of the subject matters of claims 1-3 in which an adhesive layer contains a modified polyvinyl pyrrolidone resin does not appear to be novel or to involve an inventive step, since it is described in the examples of document 1 or 2 cited in the ISR.

The thermal transfer sheet of the subject matters of claims 7-9 in which an adhesive layer contains a polyvinyl pyrrolidone resin and a complex forming agent does not appear to be novel or to involve an inventive step, since it is described in the example of document 3 cited in the ISR.

The thermal transfer sheet of the subject matters of claims 4-6 in which an adhesive layer contains a polyvinyl pyrrolidone resin and a sugar or a sugar alcohol is neither described in any of the documents cited in the ISR nor obvious to a person skilled in the art.

The thermal transfer sheet of the subject matters of claims 10-12 in which an adhesive layer contains a polyvinyl pyrrolidone resin and a modifying agent is neither described in any of the documents cited in the ISR nor obvious to a person skilled in the art.

The thermal transfer sheet of the subject matters of claims 13-16 in which an adhesive layer contains a polyvinyl pyrrolidone resin and a component (A) and a component (B) is neither described in any of the documents cited in the ISR nor obvious to a person skilled in the art.

International application No.

PCT/JP2005/000700

Box No. VII	Certain defects in the international application
The following de	fects in the form or contents of the international application have been noted:
"modify	The "complex forming agent" in claim 11 is an error in writing that should be corrected as ing agent".
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International application No.
PCT/JP2005/000700

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by

the description, are made:

Claims 7-12 are not supported by the specification.

The complex forming agent or modifying agent of the present invention substantially uses the compound described in paragraph [0053] or [0060], but in claims 7-12, this aspect is not specified, matters that are not actually described are included, and the constitution and scope of the invention are unclear.